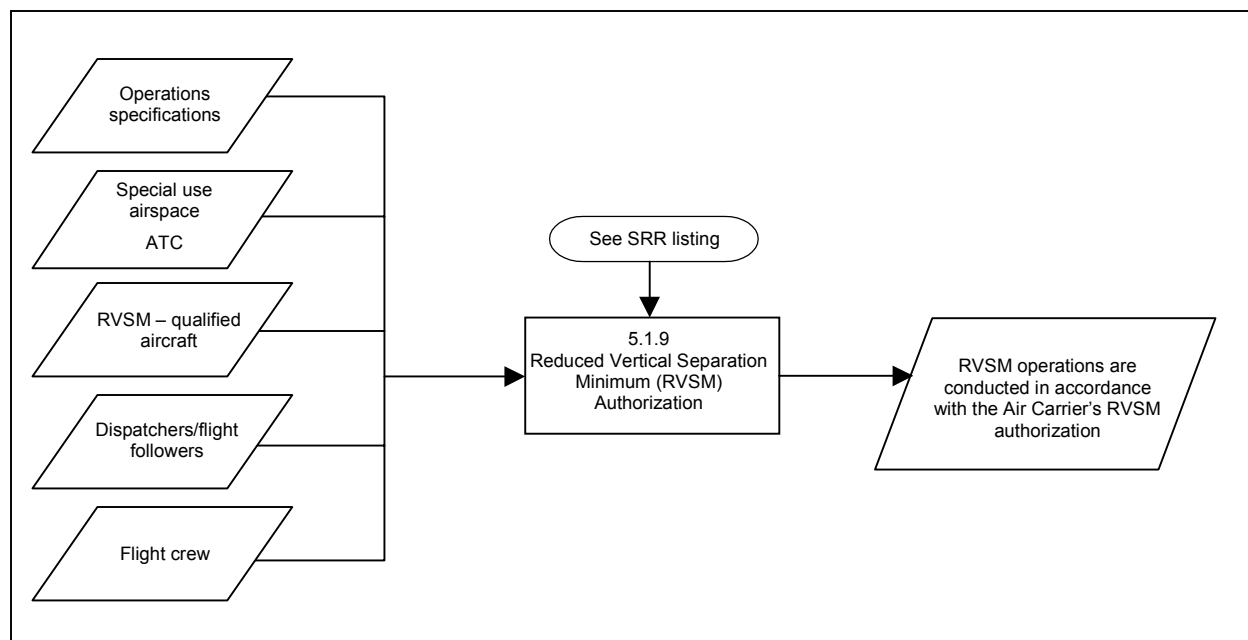


Safety Attribute Inspection (SAI) Job Aid



ELEMENT SUMMARY INFORMATION

Element: 5.1.9 Reduced Vertical Separation Minimum (RVSM) Authorization

Purpose of this Element (Air Carrier's responsibility): To ensure continuous altitude reliability in accordance with the Air Carrier's RVSM authorization.

Objective (FAA responsibility): To determine if the air carrier's RVSM process includes safety attributes.

Inputs:

- Operations Specifications
- Special Use Airspace
- Air Traffic Control (ATC)
- RVSM-Qualified Aircraft
- Dispatchers/Flight Followers
- Flight Crew

Output:

- RVSM operations are conducted in accordance with the Air Carrier's RVSM authorization

Performance Measures:

- RVSM operations are conducted in accordance with the Air Carrier's RVSM authorization.
- All airplanes remain within the allowable altimetry error.

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SRR:

- 14 CFR 91.706: “Operations within Airspace Designed as Reduced Vertical Separation Minimum (RVSM) Airspace.”
- 14 CFR 91, Appendix G, “Operations in Reduced Vertical Separation Minimum (RVSM) Airspace”

Other CFRs and/or FAA Guidance:

- HBAT 99-11A “Approval of Aircraft and Operators for Flight in Airspace Above Flight Level 290 Where 1,000 Foot Vertical Separation is Applied”
- AC-91-RVSM “Approval of Aircraft and Operators for Flight in Airspace Above Flight Level (FL) 290 Where 1,000 Foot Vertical Separation is Applied”
- HBAT 00-03 NAT/MNPS and RVSM airspace flight level changes to the operations specifications, B039 and B046
- HBAW 00-04 NAT/MNPS and RVSM airspace flight level changes to the operations specifications, B039 and B046

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SRR SPECIFIC INFORMATION

SRR	Intent	Inspectors
91.706 (a)	To specify the requirements for operations within RVSM.	<i>Certification: ASI</i> <i>Surveillance: ASI</i>
91, App. G	TBD	<i>Certification: ASI</i> <i>Surveillance: ASI</i>

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5.1.9 Reduced Vertical Separation Minimum (RVSM) Authorization

SECTION 1 - RESPONSIBILITY ATTRIBUTE

Objective: To determine if there is a clearly identifiable, qualified, and knowledgeable person who is accountable for the quality of the RVSM process.

To meet this objective, the inspector will accomplish the following tasks:

1. Identify the person who is responsible for the quality of the Reduced Vertical Separation Minimum (RVSM) Authorization process.
2. Review the description in the Manual that delineates the duties and responsibilities of the person.
3. Evaluate the person's qualifications and work experience (or resume', if appropriate).
4. Review the appropriate organizational chart.
5. Discuss the Reduced Vertical Separation Minimum (RVSM) Authorization process with the person.

To meet this objective, the inspector will answer the following questions:

1. Is there a clearly identifiable person who is answerable for the quality of the Reduced Vertical Separation Minimum (RVSM) Authorization process?	<input type="checkbox"/> YES <input type="checkbox"/> NO	If yes, provide the name: If no, explain:
2. Does the person understand the procedures associated with the Reduced Vertical Separation Minimum (RVSM) Authorization process?	<input type="checkbox"/> YES <input type="checkbox"/> NO	If no, explain:
3. Does the person understand the controls associated with the Reduced Vertical Separation Minimum (RVSM) Authorization process?	<input type="checkbox"/> YES <input type="checkbox"/> NO	If no, explain:
4. Does the person understand the interfaces associated with the Reduced Vertical Separation Minimum (RVSM) Authorization process?	<input type="checkbox"/> YES <input type="checkbox"/> NO	If no, explain:
5. Does the person understand the process measurements associated with the Reduced Vertical Separation Minimum (RVSM) Authorization process?	<input type="checkbox"/> YES <input type="checkbox"/> NO	If no, explain:
6. Is the responsibility of this position clearly documented in the air carrier's Manual(s)?	<input type="checkbox"/> YES <input type="checkbox"/> NO	If no, explain:
7. Are the qualification standards for this position clearly documented?	<input type="checkbox"/> YES <input type="checkbox"/> NO	If no, explain:
7a Are the qualification standards for this position appropriate for the duties that are assigned?	<input type="checkbox"/> YES <input type="checkbox"/> NO	If no, explain:
8. Does the person meet the qualification standards?	<input type="checkbox"/> YES <input type="checkbox"/> NO	If no, explain:
9. Does the person acknowledge that he/she has responsibility for the Reduced Vertical Separation Minimum (RVSM) Authorization process?	<input type="checkbox"/> YES <input type="checkbox"/> NO	If no, explain:
10. Does the person know who has authority to establish and modify the Reduced Vertical Separation Minimum (RVSM) Authorization process?	<input type="checkbox"/> YES <input type="checkbox"/> NO	If no, explain:

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5.1.9 Reduced Vertical Separation Minimum (RVSM) Authorization

SECTION 2 – AUTHORITY ATTRIBUTE

Objective: To determine if there is a clearly identifiable, qualified, and knowledgeable person with the authority to establish and modify the RVSM process.

To meet this objective, the inspector will accomplish the following tasks:

1. Identify the person who has the authority to establish or modify the Reduced Vertical Separation Minimum (RVSM) Authorization process.
2. Review the description in the Manual that delineates the duties and responsibilities of the person.
3. Evaluate the person's qualifications and work experience (or resume', if appropriate).
4. Review the appropriate organizational chart.
5. Discuss the Reduced Vertical Separation Minimum (RVSM) Authorization process with the person.

To meet this objective, the inspector will answer the following questions:

1. Is there a clearly identifiable person who has authority to establish and modify the air carrier's policies for the Reduced Vertical Separation Minimum (RVSM) Authorization process?	<input type="checkbox"/> YES If yes, provide the name: <input type="checkbox"/> NO If no, explain:
2. Does the person understand the procedures associated with the Reduced Vertical Separation Minimum (RVSM) Authorization process?	<input type="checkbox"/> YES If no, explain: <input type="checkbox"/> NO
3. Does the person understand the controls associated with the Reduced Vertical Separation Minimum (RVSM) Authorization process?	<input type="checkbox"/> YES If no, explain: <input type="checkbox"/> NO
4. Does the person understand the interfaces associated with the Reduced Vertical Separation Minimum (RVSM) Authorization process?	<input type="checkbox"/> YES If no, explain: <input type="checkbox"/> NO
5. Does the person understand the process measurements associated with the Reduced Vertical Separation Minimum (RVSM) Authorization process?	<input type="checkbox"/> YES If no, explain: <input type="checkbox"/> NO
6. Is the authority of this position clearly documented in the air carrier's Manual(s)?	<input type="checkbox"/> YES If no, explain: <input type="checkbox"/> NO
7. Are the qualification standards for this position clearly documented?	<input type="checkbox"/> YES If no, explain: <input type="checkbox"/> NO
7a Are the qualification standards for this position appropriate for the duties that are assigned?	<input type="checkbox"/> YES If no, explain: <input type="checkbox"/> NO
8. Does the person meet the qualification standards?	<input type="checkbox"/> YES If no, explain: <input type="checkbox"/> NO
9. Does the person acknowledge that he/she has authority for the Reduced Vertical Separation Minimum (RVSM) Authorization process?	<input type="checkbox"/> YES If no, explain: <input type="checkbox"/> NO
10. Does the individual know who has the responsibility for the Reduced Vertical Separation Minimum (RVSM) Authorization process?	<input type="checkbox"/> YES If no, explain: <input type="checkbox"/> NO
11. Are the procedures for delegation of authority clearly documented for the Reduced Vertical Separation Minimum (RVSM) Authorization process?	<input type="checkbox"/> YES If no, explain: <input type="checkbox"/> NO

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5.1.9 Reduced Vertical Separation Minimum (RVSM) Authorization

SECTION 3 – PROCEDURES ATTRIBUTE

Objective: To determine if the air carrier has documented procedures for accomplishing the RVSM process.

To meet this objective, the inspector will accomplish the following tasks:

1. Review the documented instructions and information related to the Reduced Vertical Separation Minimum (RVSM) Authorization process to ensure that they contain who, what, where, when, and how.
2. Review the FAA Guidance and Specific Regulatory Requirements (SRR) included in the supplemental information section of this SAI.
3. Discuss the Reduced Vertical Separation Minimum (RVSM) Authorization process with appropriate personnel to gain an understanding of the procedures.
4. Observe the Reduced Vertical Separation Minimum (RVSM) Authorization process to gain an understanding of the procedures.

To meet this objective, the inspector will answer the following questions:

1. Do written procedures exist to achieve the desired result of the Reduced Vertical Separation Minimum (RVSM) Authorization process:

1.1 Do written procedures exist to ensure that only RVSM crews are assigned to RVSM operations?

☐ YES **If no, explain:**
☐ NO

1.2 Do written procedures exist to ensure that only RVSM qualified dispatchers are assigned to RVSM operations?

☐ YES **If no or N/A, explain:**
☐ NO
☐ N/A

1.3 Do written procedures exist to ensure that only RVSM trained flight followers are assigned to RVSM operations?

☐ YES **If no or N/A, explain:**
☐ NO
☐ N/A

1.4 Do written procedures exist to ensure that only RVSM airplanes are assigned to RVSM operations?

☐ YES **If no, explain:**
☐ NO

1.5 Do written procedures exist to identify all actions that the aircrew must accomplish prior to and after entering RVSM airspace?

☐ YES **If no, explain:**
☐ NO

1.6 Do written procedures exist to determine that airplanes continue to meet RVSM altimeter tolerances while in RVSM airspace?

☐ YES **If no, explain:**
☐ NO

1.7 Do written procedures exist to notify ATC when an airplane is no longer able to comply with RVSM requirements?

☐ YES **If no, explain:**
☐ NO

1.8 Do written procedures exist to record instances in which an airplane was no longer able to comply with RVSM requirements?

☐ YES **If no, explain:**
☐ NO

2. Do the procedures identify: who, what, where, when and how?

☐ YES **If no, explain:**
☐ NO

3. Are the procedures in compliance with the CFR(s)?

☐ YES **If no, explain:**
☐ NO

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5.1.9 Reduced Vertical Separation Minimum (RVSM) Authorization

SECTION 3 – PROCEDURES ATTRIBUTE

4. Do the procedures conform to other written guidance (E.g., Operations Specifications, FAA Orders, Airworthiness Directives, Advisory Circulars, Handbook Bulletins, Directives, and Manufacturer's Recommendations)?	<input type="checkbox"/> YES If no, explain: <input type="checkbox"/> NO
5. Does the air carrier have the resources to support the written procedures for the Reduced Vertical Separation Minimum (RVSM) Authorization process?	<input type="checkbox"/> YES If no, explain: <input type="checkbox"/> NO
6. If alternate procedures exist for use during irregular conditions, do they achieve the same desired results as the primary procedures so that an equivalent level of safety is maintained? (E.g., a manual system used as a result of equipment failure).	<input type="checkbox"/> YES If no, explain: <input type="checkbox"/> NO <input type="checkbox"/> N/A, No alternate procedures exist for this element
7. Are the procedures published in different manuals relating to the Reduced Vertical Separation Minimum (RVSM) Authorization process consistent?	<input type="checkbox"/> YES If no, explain: <input type="checkbox"/> NO
8. Does the air carrier have a documented method for assessing the impacts of procedural changes to the Reduced Vertical Separation Minimum (RVSM) Authorization process?	<input type="checkbox"/> YES If no, explain: <input type="checkbox"/> NO

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5.1.9 Reduced Vertical Separation Minimum (RVSM) Authorization

SECTION 4 – CONTROL ATTRIBUTE

Objective: To determine if checks and restraints are designed into the RVSM process to ensure a desired result is achieved.

To meet this objective, the inspector will accomplish the following tasks:

1. Review the documented instructions and information related to the Reduced Vertical Separation Minimum (RVSM) Authorization process.
2. Review the FAA Guidance and Specific Regulatory Requirements (SRR) included in the supplemental information section of this SAI
3. Discuss the Reduced Vertical Separation Minimum (RVSM) Authorization process with appropriate personnel to gain an understanding of the controls.
4. Observe the Reduced Vertical Separation Minimum (RVSM) Authorization process to gain an understanding of the controls.

To meet this objective, the inspector will answer the following questions:

1. Are the following checks and restraints built into the Reduced Vertical Separation Minimum (RVSM) Authorization process:

1.1 Is there a system in place that prevents non-RVSM qualified crewmembers from being assigned to RVSM operations?	<input type="checkbox"/> YES <input type="checkbox"/> NO	If no, explain:
1.2 Is there a system in place that prevents non-RVSM qualified dispatchers from being assigned to RVSM operations?	<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A	If no or N/A, explain:
1.3 Is there a system in place that prevents non-RVSM trained flight followers from being assigned to RVSM operations?	<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A	If no or N/A, explain:
1.4 Is there a system in place that prevents non-RVSM airplanes from being assigned to RVSM operations?	<input type="checkbox"/> YES <input type="checkbox"/> NO	If no, explain:
1.5 Is there a system in place that verifies the beginning of an RVSM route segment?	<input type="checkbox"/> YES <input type="checkbox"/> NO	If no, explain:
1.6 Is there a system in place to verify that the airplane continues to meet RVSM equipment requirements prior to initiating an RVSM route segment?	<input type="checkbox"/> YES <input type="checkbox"/> NO	If no, explain:
1.7 Is there a system in place to verify that enroute alternate airports remain suitable prior to entering an RVSM route segment?	<input type="checkbox"/> YES <input type="checkbox"/> NO	If no, explain:
1.8 Is there a system in place to verify that the Air Carrier complies with RVSM expanded reporting requirements?	<input type="checkbox"/> YES <input type="checkbox"/> NO	If no, explain:
2. Do the checks and restraints ensure the desired result is achieved for the Reduced Vertical Separation Minimum (RVSM) Authorization process?	<input type="checkbox"/> YES <input type="checkbox"/> NO	If no, explain:

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5.1.9 Reduced Vertical Separation Minimum (RVSM) Authorization

SECTION 4 – CONTROL ATTRIBUTE

- | | |
|--|--|
| 3. Does the air carrier have a documented method for assessing the impacts of any changes made to checks and restraints in the Reduced Vertical Separation Minimum (RVSM) Authorization process? | <input type="checkbox"/> YES If no, explain:
<input type="checkbox"/> NO |
| 4. Does the air carrier have the resources to support the checks and restraints for the Reduced Vertical Separation Minimum (RVSM) Authorization process? | <input type="checkbox"/> YES If no, explain:
<input type="checkbox"/> NO |

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5.1.9 Reduced Vertical Separation Minimum (RVSM) Authorization

SECTION 5 - PROCESS MEASUREMENT ATTRIBUTE

Objective: To determine if the air carrier measures and assesses the RVSM Program, to identify and correct problems or potential problems.

To meet this objective, the inspector will accomplish the following tasks:

1. Review the documented instructions and information related to the Reduced Vertical Separation Minimum (RVSM) Authorization process.
2. Discuss the Reduced Vertical Separation Minimum (RVSM) Authorization process with appropriate personnel to gain an understanding of the process measures.
3. Observe the Reduced Vertical Separation Minimum (RVSM) Authorization process to gain an understanding of the process measures.

To meet this objective, the inspector will answer the following questions:

1. <Deleted>

2. Does the air carrier's Reduced Vertical Separation Minimum (RVSM) Authorization process include the following process measurements?

2.1 Does the Air Carrier record when an attempt was made to assign non-qualified crewmembers to RVSM operations?

☐ YES If no, explain:
☐ NO

2.2 Does the Air Carrier record when an attempt was made to assign non-qualified dispatchers to RVSM operations?

☐ YES If no or N/A, explain:
☐ NO
☐ N/A SUPPLEMENTAL

2.3 Does the Air Carrier record when an attempt was made to assign untrained flight followers to RVSM operations?

☐ YES If no or N/A, explain:
☐ NO
☐ N/A DOMESTIC & FLAG

2.4 Does the Air Carrier record when an attempt was made to assign non-RVSM airplanes to RVSM operations?

☐ YES If no, explain:
☐ NO

2.5 Does the Air Carrier's voluntary disclosure program provide for reporting instances of non-compliance with their RVSM authorization?

☐ YES If no or N/A, explain:
☐ NO
☐ N/A

3. Does the air carrier document their process measurement methods and results?

☐ YES If no, explain:
☐ NO

4. Are the air carrier's process measurement methods effective?

☐ YES If no, explain:
☐ NO

5. Does the air carrier use their process measurement results to improve their programs?

☐ YES If no, explain:
☐ NO

6. Are the process measurement results accessible to the FAA?

☐ YES If no, explain:
☐ NO

7. Does the organization that conducts the process measurement have direct access to the person with responsibility for the Reduced Vertical Separation Minimum (RVSM) Authorization process?

☐ YES If no, explain:
☐ NO

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5.1.9 Reduced Vertical Separation Minimum (RVSM) Authorization

SECTION 5 - PROCESS MEASUREMENT ATTRIBUTE

8. Does the air carrier have the resources to support the process measurement for the Reduced Vertical Separation Minimum (RVSM) Authorization process?

☐ YES If no, explain:
☐ NO

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5.1.9 Reduced Vertical Separation Minimum (RVSM) Authorization

SECTION 6 – INTERFACES ATTRIBUTE

Objective: To determine if the air carrier identifies and manages the interactions between the RVSM process and the other element processes within the air carrier organization.

To meet this objective, the inspector will accomplish the following tasks:

1. Review the documented instructions and information related to the Reduced Vertical Separation Minimum (RVSM) Authorization process.
2. Discuss the Reduced Vertical Separation Minimum (RVSM) Authorization process with appropriate personnel to gain an understanding of the interfaces.
3. Observe the Reduced Vertical Separation Minimum (RVSM) Authorization process to gain an understanding of the interfaces.

To meet this objective, the inspector will answer the following questions:

1. Are the following interfaces identified for the Reduced Vertical Separation Minimum (RVSM) Authorization process:

1.1 Aircraft Airworthiness Requirements (Element 1.1.1)	<input type="checkbox"/> YES If no, explain: <input type="checkbox"/> NO
1.2 Appropriate Operational Equipment (Element 1.1.3)	<input type="checkbox"/> YES If no, explain: <input type="checkbox"/> NO
1.3 Airworthiness Release or Log Book Entry (Element 1.2.1)	<input type="checkbox"/> YES If no, explain: <input type="checkbox"/> NO
1.4 Maintenance Log/Recording Requirements (Element 1.2.3)	<input type="checkbox"/> YES If no, explain: <input type="checkbox"/> NO
1.5 Mechanical Interruption Summary (MIS) Reports (Element 1.2.4)	<input type="checkbox"/> YES If no, explain: <input type="checkbox"/> NO
1.6 Mechanical Reliability Reports (MRR) (Element 1.2.5)	<input type="checkbox"/> YES If no, explain: <input type="checkbox"/> NO
1.7 Maintenance Program (Element 1.3.1)	<input type="checkbox"/> YES If no, explain: <input type="checkbox"/> NO
1.8 Inspection Program (Element 1.3.2)	<input type="checkbox"/> YES If no, explain: <input type="checkbox"/> NO
1.9 Required Inspection Item (RII) (Element 1.3.4)	<input type="checkbox"/> YES If no, explain: <input type="checkbox"/> NO
1.10 MEL/CDL/Deferred Maintenance (Element 1.3.5)	<input type="checkbox"/> YES If no, explain: <input type="checkbox"/> NO
1.11 AD Management (Element 1.3.6)	<input type="checkbox"/> YES If no, explain: <input type="checkbox"/> NO
1.12 Outsource Organization (Element 1.3.7)	<input type="checkbox"/> YES If no, explain: <input type="checkbox"/> NO
1.13 Parts/Material Control/SUP (Element 1.3.10)	<input type="checkbox"/> YES If no, explain: <input type="checkbox"/> NO

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5.1.9 Reduced Vertical Separation Minimum (RVSM) Authorization

SECTION 6 – INTERFACES ATTRIBUTE

1.14 Continuous Analysis and Surveillance (CAS) (Element 1.3.11)	<input type="checkbox"/> YES If no, explain: <input type="checkbox"/> NO
1.15 GMM/Equivalent (Element 1.3.14)	<input type="checkbox"/> YES If no, explain: <input type="checkbox"/> NO
1.16 Reliability Program (Element 1.3.15)	<input type="checkbox"/> YES If no, explain: <input type="checkbox"/> NO
1.17 Reduced Vertical Separation Minimum (RVSM) (Element 5.1.9)	<input type="checkbox"/> YES If no, explain: <input type="checkbox"/> NO
1.18 Manual(s) (System 2.0)	<input type="checkbox"/> YES If no, explain: <input type="checkbox"/> NO
1.19 Airman Duties/Flight Deck Procedures (Element 3.1.3)	<input type="checkbox"/> YES If no, explain: <input type="checkbox"/> NO
1.20 Operational Control (Element 3.1.4)	<input type="checkbox"/> YES If no, explain: <input type="checkbox"/> NO
1.21 Aircraft Performance Operating Limitations (Element 3.1.9)	<input type="checkbox"/> YES If no, explain: <input type="checkbox"/> NO
1.22 Special Navigation Areas of Operation (Element 5.1.7)	<input type="checkbox"/> YES If no, explain: <input type="checkbox"/> NO
1.23 Safety Program (Ground and Flight) (Element 7.2.1)	<input type="checkbox"/> YES If no, explain: <input type="checkbox"/> NO
1.24 Dispatch or Flight Release (Element 3.2.1)	<input type="checkbox"/> YES If no, explain: <input type="checkbox"/> NO
1.25 MEL/CDL Procedures (Element 3.2.3)	<input type="checkbox"/> YES If no, explain: <input type="checkbox"/> NO
1.26 Personnel Training and Personnel Qualifications (System 4.0)	<input type="checkbox"/> YES If no, explain: <input type="checkbox"/> NO
1.27 Route Structures (System 5.0)	<input type="checkbox"/> YES If no, explain: <input type="checkbox"/> NO
1.28 Technical Administration (System 7.0)	<input type="checkbox"/> YES If no, explain: <input type="checkbox"/> NO
2. List any additional interfaces identified:	
3. Are there written procedures for the use of air carrier personnel in the application of these interfaces?	<input type="checkbox"/> YES If no, explain: <input type="checkbox"/> NO
4. Are there controls to ensure that interfaces occur?	<input type="checkbox"/> YES If no, explain: <input type="checkbox"/> NO
5. Are the interfaces between the Reduced Vertical Separation Minimum (RVSM) Authorization process and other processes treated consistently in the Manual(s)?	<input type="checkbox"/> YES If no, explain: <input type="checkbox"/> NO